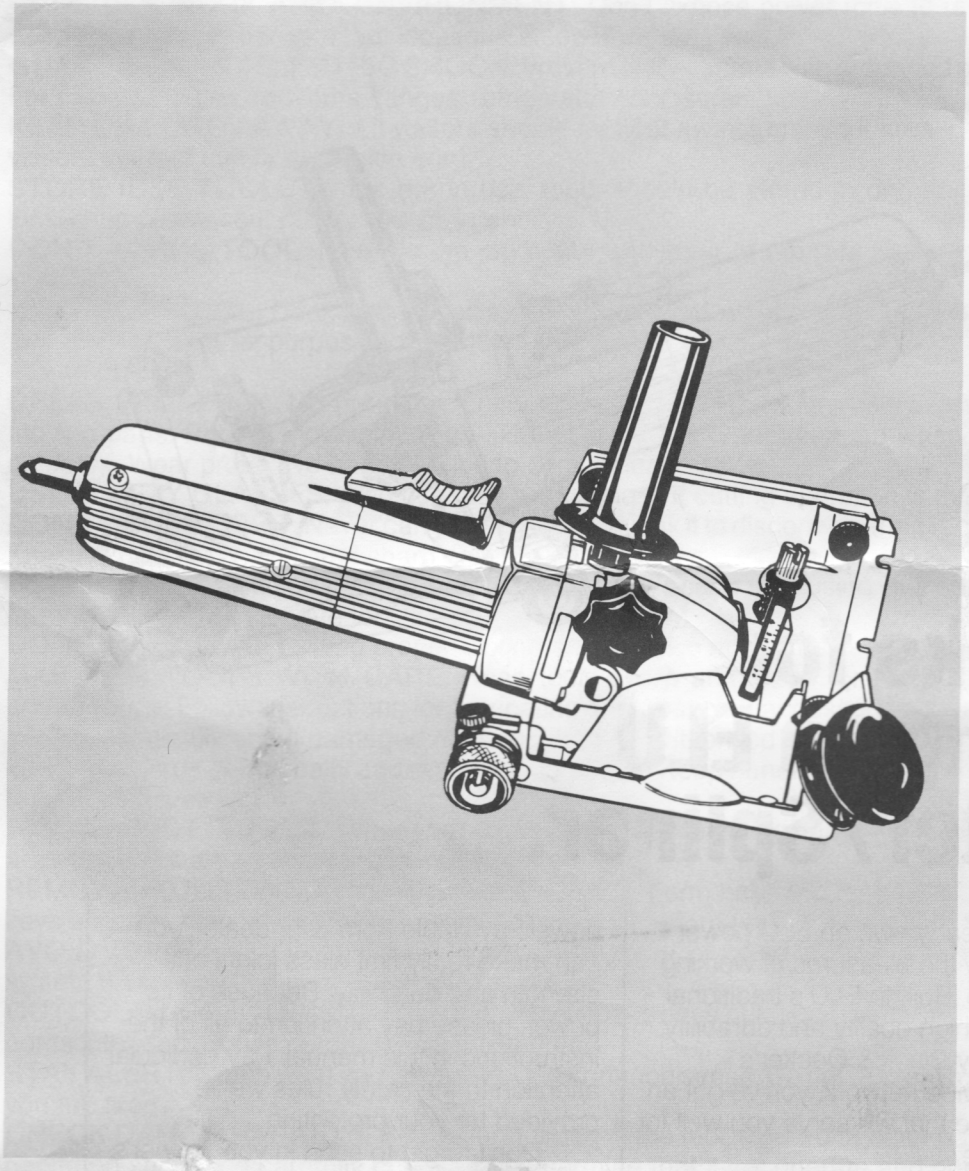
Elu™

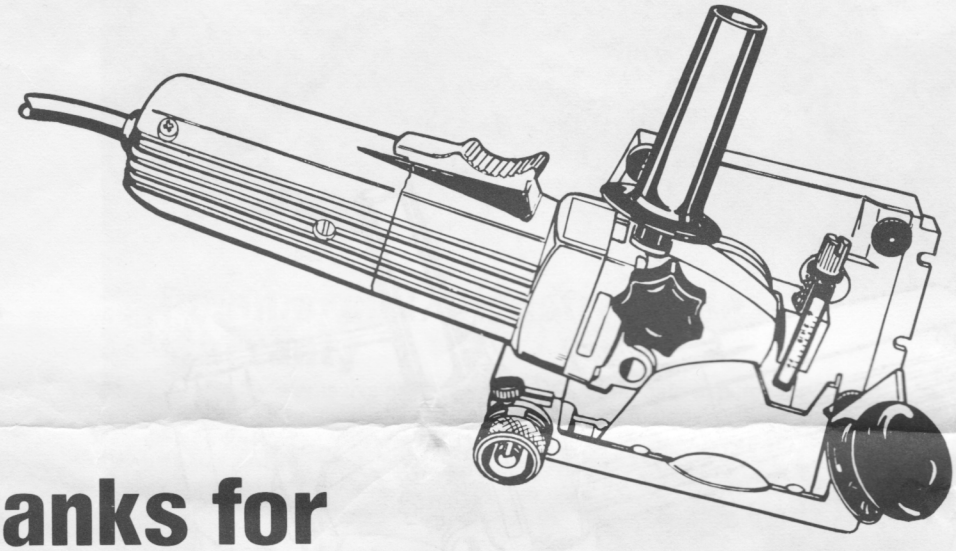
WOODWORKING TOOLS BY

BLACK & DECKER



Instruction Manual

Jointer/Spliner
3380



Thanks for buying an ELU Jointer/Spliner.

If you already own an ELU power tool, you know the pleasures of working with a real pro. Built to ELU's traditional standards for high quality and durability and backed by Black & Decker's extensive service network, you've got an excellent value that will serve you well for years to come.

This is a reliable, precision Jointer/Spliner made to perform exacting work over and over. Used with the flat dowels available from your dealer, you can make really first class joints of strength and durability. Because of its power, please pay attention to all of the instructions in this manual. Pay particular attention to the safety rules we've provided for your protection.

Don't forget to send in your owner's registration card.

Thanks again for buying Black & Decker!

ELU™
WOODWORKING TOOLS BY
BLACK & DECKER

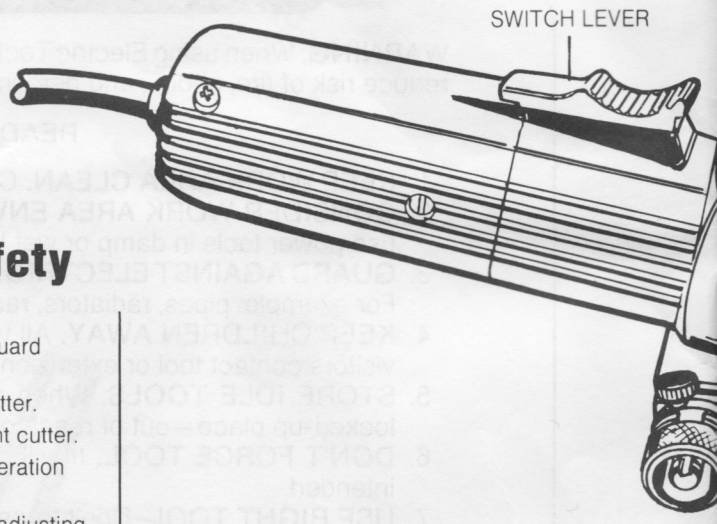
Important Safety Instructions

WARNING: When using Electric Tools, basic safety precautions should always be followed to reduce risk of fire, shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.
3. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
4. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
5. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place—out of reach of children.
6. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
7. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended, for example, don't use circular saw for cutting tree limbs or logs.
8. **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
9. **USE SAFETY GLASSES.** Also use face or dustmask if cutting operation is dusty.
10. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
11. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
12. **DON'T OVERREACH.** Keep proper footing and balance at all times.
13. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
14. **DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
15. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
16. **AVOID UNINTENTIONAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
17. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
20. **DO NOT OPERATE** portable electric tools near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

SAVE THESE INSTRUCTIONS



Double Insulation

Your unit is **DOUBLE-INSULATED** to give you added safety. This means that it is constructed throughout with **TWO** separate "layers" of electrical insulation or one **DOUBLE** thickness of insulation between you and the tool's electrical system.

Tools built with this insulation system are not intended to be grounded. As a result, your tool is equipped with a two-prong plug which permits you to use extension cords without concern for maintaining a ground connection.

NOTE: DOUBLE INSULATION does not take the place of normal safety precautions when operating this tool. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

CAUTION: When servicing all tools, **USE ONLY IDENTICAL REPLACEMENT PARTS.** Repair or replace damaged cords.

Additional Safety Instructions

1. Always keep guards and guard cover properly assembled.
2. Keep fingers away from cutter.
3. Use only original equipment cutter.
4. Check for proper guard operation before use.
5. Always unplug tool before adjusting cutter or changing cutter.

Motor

Your ELU tool is powered by an ELU-built motor. Be sure your power supply agrees with the nameplate marking.

Volts 50/60 Hz or "AC only" means your tool must be operated only with alternating current and never with direct current.

Voltage decrease of more than 10% will cause loss of power and overheating. All ELU tools are factory tested; if this tool does not operate, check the power supply.

Extension Cords

Double insulated tools have 2 wire cords, and can be used with 2 wire or 3 wire extension cords. Only round jacketed extension cords should be used, and we recommend that they be listed by Underwriters Laboratories (U.L.). If the extension will be used outside, the cord must be suitable for outdoor use. Any cord marked as outdoor can also be used for indoor work. The letters "WA" on the cord jacket indicate that the cord is suitable for outdoor use.

An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size.

To determine the minimum wire size required, refer to the chart below:

CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS

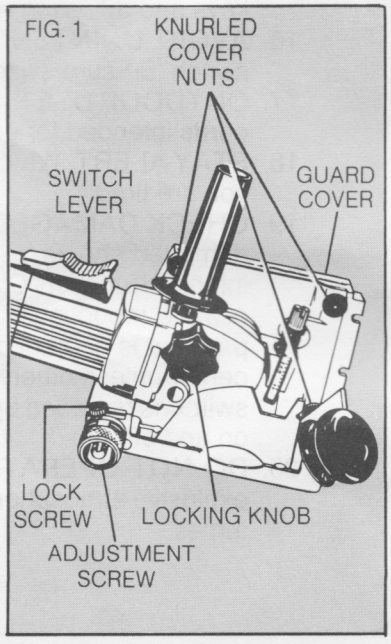
NAMEPLATE RATING-AMPS	TOTAL EXTENSION CORD LENGTH-FEET							
	25	50	75	100	125	150	175	200
0 - 10.0	18	18	16	16	14	14	12	12
10.1 - 13.0	16	16	14	14	14	12	12	12
13.1 - 15.0	14	14	12	12	12	12	12	—

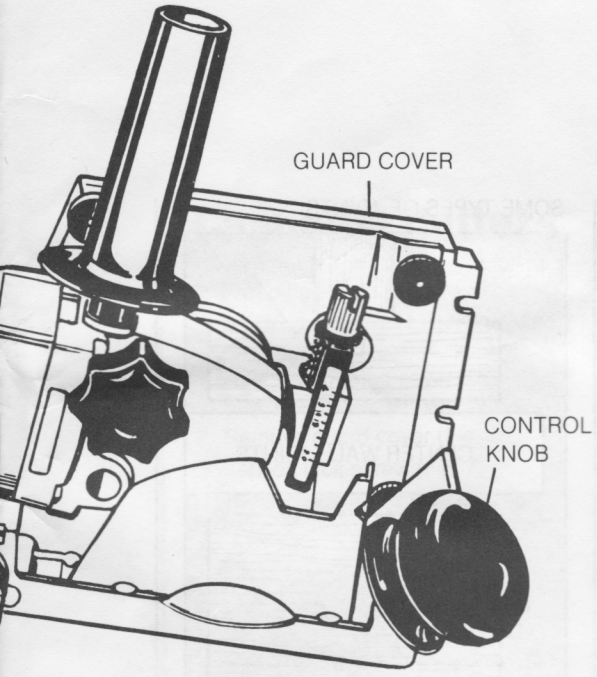
Before using an extension cord, inspect it for loose or exposed wires, damaged insulation, and defective fittings. Make any needed repairs or replace the cord if necessary.

Switch

Your Jointer/Spliner is equipped with a momentary contact switch. This means it must be held on to operate the tool.

To turn tool "on", place thumb on switch lever (Fig. 1) and pull back. To turn "off", just release thumb pressure.





Anti-Splintering Insert

A plastic insert is provided to reduce splintering when cutting into veneered panels. To assemble insert:

1. Unscrew 4 knurled cover nuts (Fig. 1).
2. Remove guard cover (Fig. 1).
3. Assemble insert (Fig. 2) into the grooves (Fig. 2) in the guard. NOTE: The insert is in the plastic bag with the wrenches. It only fits in the guard one way.
4. Reassemble guard cover and knurled cover nuts.
5. Cut slot through insert by placing tool against a piece of soft wood and pivoting cutter down through the insert and into the wood.

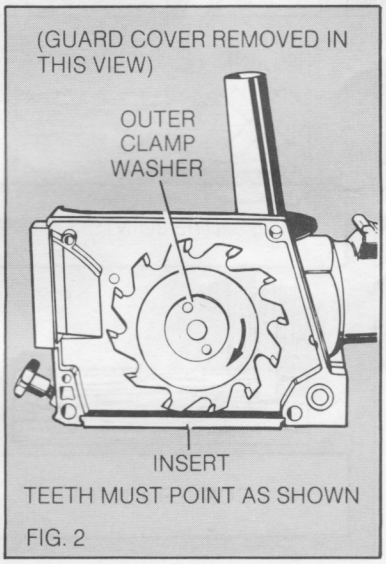
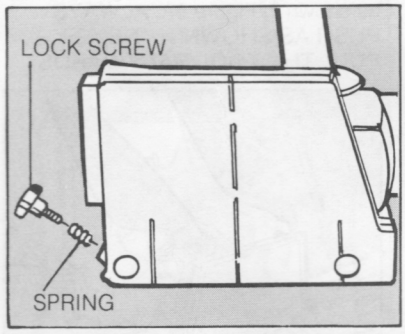


FIG. 2

Lock Screw

Install Lock Screw and spring, packed in plastic bag, as shown in figure below.



Basic Operation

The primary function of the ELU Jointer/Spliner is to cut the recesses for joining pieces of wood and/or wood products using glue and flat dowels or splines (see Figs. 4 and 6).

The tool works by pivoting action. The guard/shoe assembly is held firmly against the work piece and the motor assembly is pivoted to plunge the cutter into the work.

For easier access in tight situations, the motor assembly can be pivoted with respect to the shoe and guard. Loosen locking knob (Fig. 1) and rotate tool to desired position. Retighten knob.

Adjustments

The depth of cut is controlled by the adjustment screw (Fig. 3). Clockwise rotation of the screw makes the cut shallower; counterclockwise rotation makes the cut deeper. The depth scale on the side of the adjustment screw (Fig. 3) shows the depth the cutter protrudes beyond the bottom of the shoe. The approximate setting for each spline is shown in Fig. 4. The adjustment for locating the recess in the "side to side" direction is accomplished in two ways.

The coarse adjustment is through the use of the side fence (Fig. 5). Attach the side fence by loosening lock screws, (Fig. 5) and pushing the guide rods on the fence into the mating holes in the shoe. Retighten the lock screws.

Fine adjustment is made by rotation of the fine adjustment screw (Fig. 3). First loosen lock screw (Fig. 3) and rotate fine adjustment screw clockwise to move cutter away from cover or counterclockwise to move cutter toward the guard. Do not adjust cutter while unit is running, nor adjust the screw to either extreme as the cutter may hit the guard. Retighten lock screw.

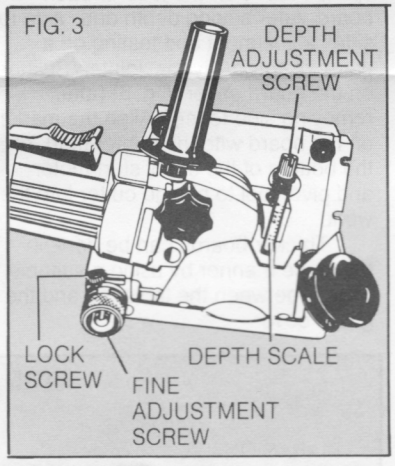


FIG. 3

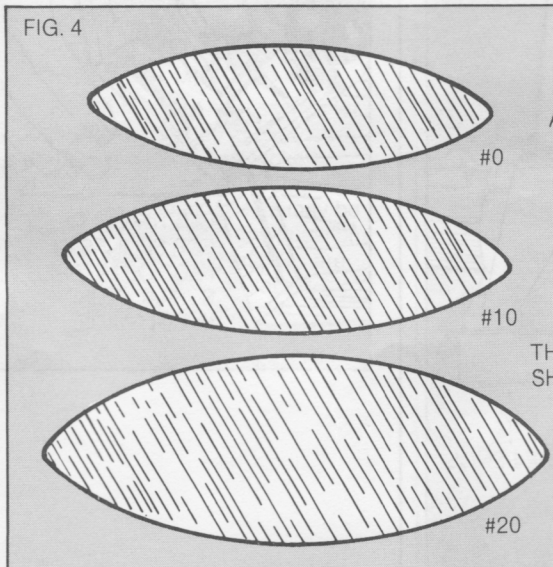


FIG. 4

APPROXIMATE DEPTH SCALE SETTING

SPLINE	SCALE
0	8
10	10
20	12

THREE SIZES OF SPLINES SHOWN APPROXIMATELY FULL SIZE

Operation

Set depth and "side to side" adjustments.

TRY SETTINGS ON SCRAP PIECES FIRST.

Mark the location for the spline recess in both pieces to be joined.

Clamp work piece securely.

Holding tool firmly in both hands, align the mark on the guard cover (Fig. 5, visible through the sight hole in the side fence) with the mark on the work piece.

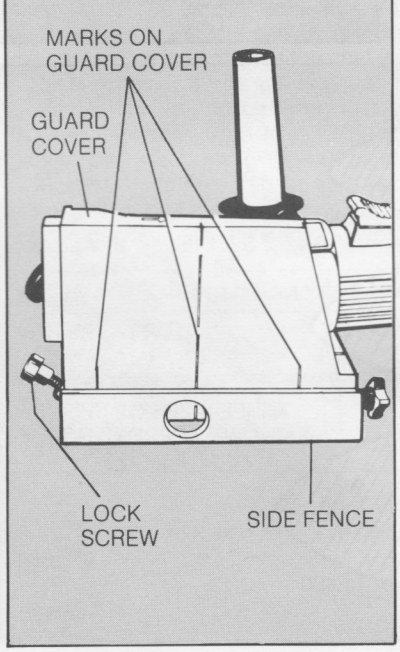
Start motor and pivot motor assembly, to plunge cutter into the work.

Edge Joining

Edge joining two or more boards can be done by laying the boards flat onto a smooth surface such as a table saw top. Mark the position for each spline recess on the face of each board. After setting depth and "side to side" adjustment and testing on a piece of scrap; lay the Jointer/Spliner on the guard cover (Fig. 5) (after removing side fence). Align the marks on the board with the center mark on the bottom of the shoe, start motor and pivot tool to plunge cutter into the work.

Thicker boards can be done in the same manner by using a suitable spacer between the table top and the guard cover.

FIG. 5



Grooving

To cut a groove, simply set the desired depth and push the tool along as shown in Figure 5A. ALWAYS PUSH AS SHOWN . . . NEVER PULL THE TOOL BACKWARDS.

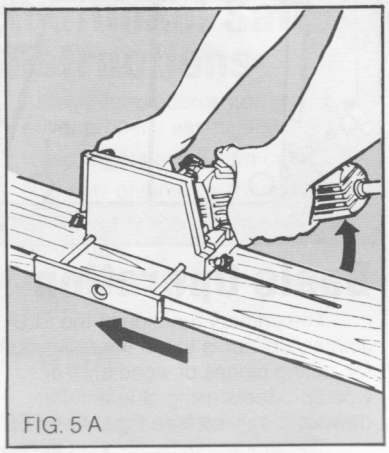
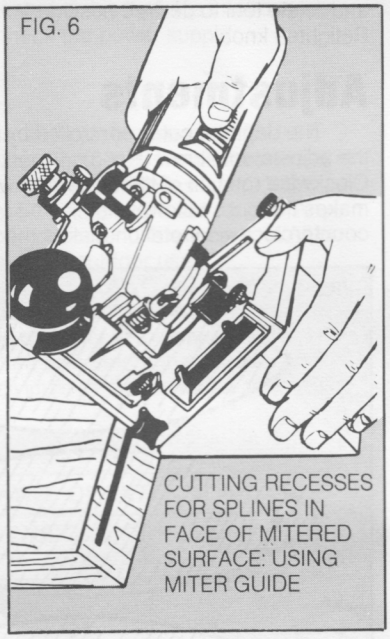


FIG. 5 A

Miter

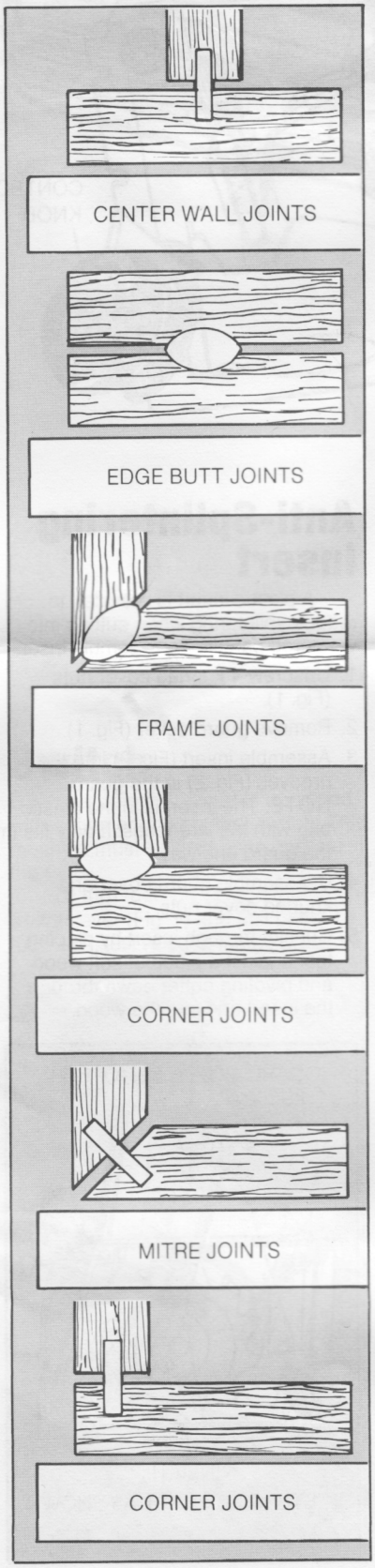
Miter cuts (cuts into the face of a 45° miter) can be made thru the use of the miter fence. See Fig. 6. The miter fence mounts in the shoe in place of the side fence.

FIG. 6



CUTTING RECESSES FOR SPLINES IN FACE OF MITERED SURFACE: USING MITER GUIDE

SOME TYPES OF JOINTS



Changing Cutters

To remove cutter, please follow this recommended procedure:

TURN OFF AND UNPLUG TOOL.

1. Unscrew knurled cover nuts (Fig. 7).
2. Remove guard cover (Fig. 7).
3. Loosen lock screw (Fig. 7).
4. Turn adjustment screw (Fig. 7) counterclockwise as far as it will go.
5. Insert "C" spanner between cutter and guard to the left side of the spindle and hook spanner into notch on the inner clamp washer.
6. Using pin spanner in mating holes in the outer clamp washer (Fig. 8), loosen outer clamp washer by turning clockwise (threads are left hand).
7. To install cutter, reverse the procedure; placing "C" spanner to the right of the spindle. Tighten securely.

   Be sure faces of the clamp washers are clean and free of nicks or burrs.

   Be sure cutter rotates in correct cutting direction. (Refer to Fig. 8.)

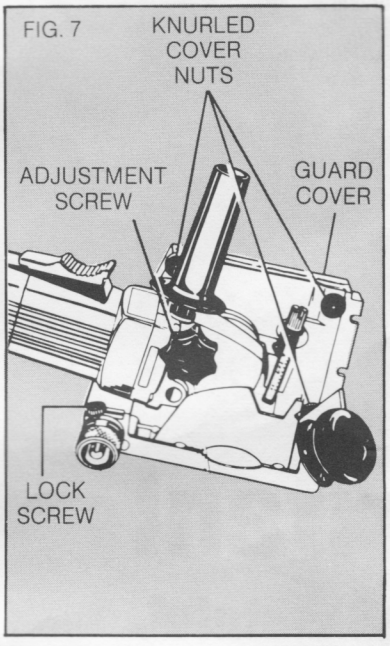
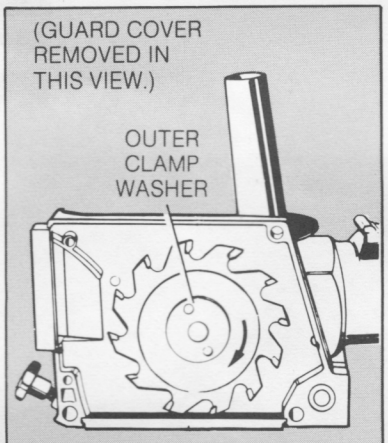


FIG. 7



TEETH MUST POINT AS SHOWN

FIG. 8

Accessories

Black & Decker offers replacement blades in two tooth configurations; either the twelve tooth style supplied with your Jointer/Spliner or a 30 tooth version for finer, smoother cuts. In addition to the replacement blades, your Black & Decker Service Center carries all three sizes of splines (in boxes of 1,000) and a dust extracting attachment. Visit your local Black & Decker Service Center where recommended accessories can be purchased. If you should need assistance in locating recommended accessories for your tool please contact:

Black & Decker (U.S.) Inc.
User Services Department
10 North Park Drive
P.O. Box 857
Hunt Valley, MD 21030-0857

Recommended accessories for your tool are available at extra cost from your local Black & Decker Service Center. The use of any other accessories or attachments may be hazardous. If you have any questions concerning which accessories are recommended, contact Black & Decker at the above address.

Important

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment, (including brush inspection and replacement) should be performed by qualified service organizations, always using ELU replacement parts.

ELU products are serviced by Black & Decker Company owned Service Centers.

Commercial/Industrial Use Warranty

ELU warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

Like most Black & Decker products your tool is listed by Underwriters Laboratories to ensure that it meets stringent safety requirements.

This symbol on the nameplate means the product is listed by Underwriters Laboratories, Inc.

ELU™
WOODWORKING TOOLS BY
BLACK&DECKER

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3380 ELU JOINTER/SPLINER - TYPE 1

INSTRUCTION FOR PIN REMOVAL AND RE-ASSEMBLY

One spring-loaded pin is located on each side of the blade face opening to help minimize movement of the Jointer/Spliner when executing a single plunge cut, especially for biscuit/flat dowel joinary in hard woods.

These pins are detachable to facilitate moving the blade face across the material when spining, grooving, or trim cutting. A "Key" (Figure 1) is provided to unscrew the pins from the blade face. The two male protrusions on the end of the Key fit into two corresponding female receptors on each blade face pin (Figure 2 & 3). Turn the key counterclockwise to unscrew the pins from the blade face.

To reinstall the pins, engage the key into each pin and screw in clockwise into the blade face.

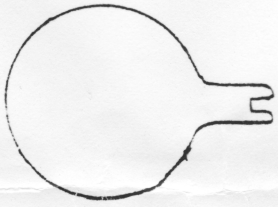

Figure 1

"Key"

Figure 2

Front View of Pin

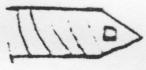

Figure 3

Side View to Pin

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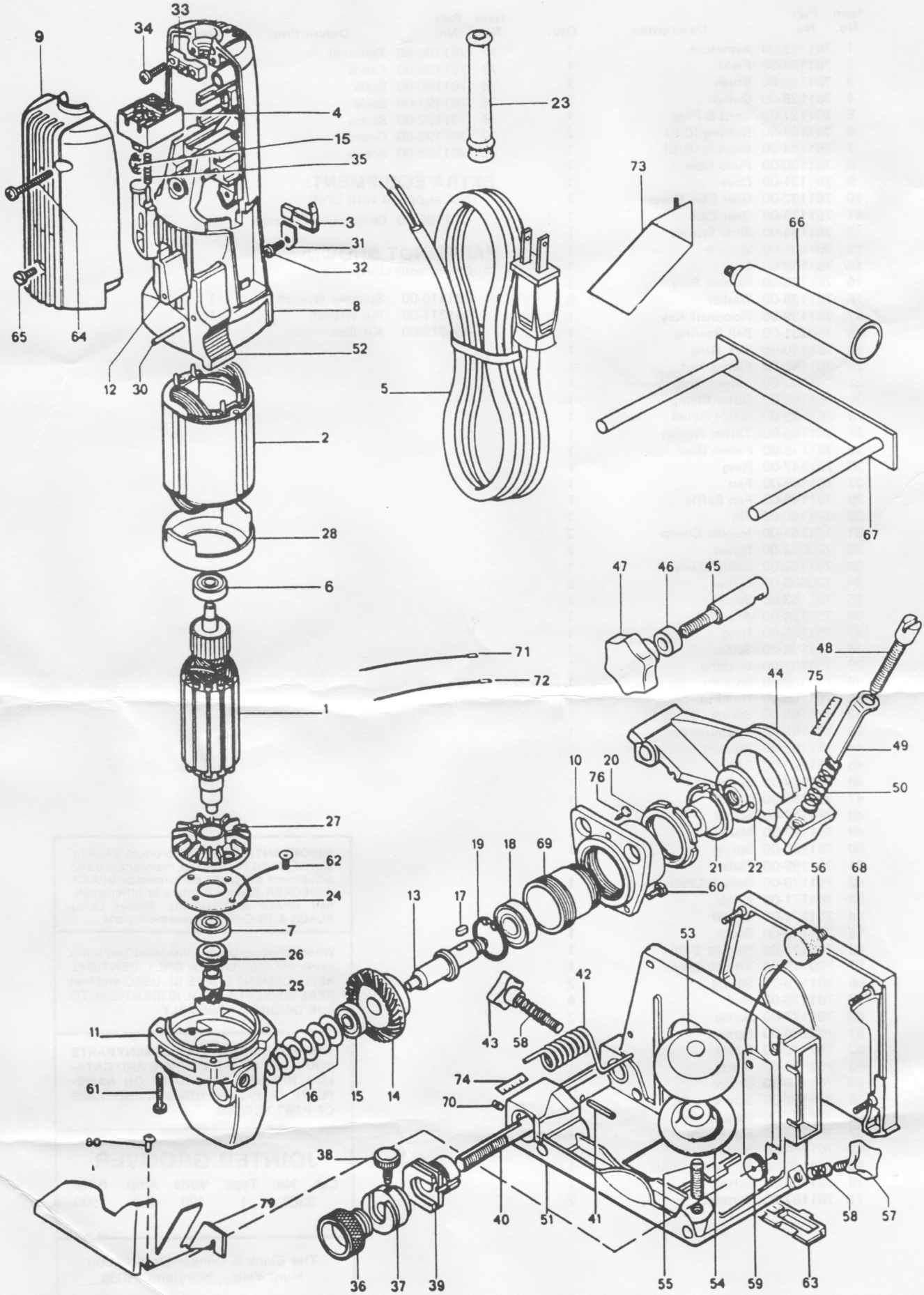
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Item No.	Part No.	Description	Qty.
1	761123-00	Armature	1
2	761124-00	Field	1
3	761126-00	Brush	2
4	761125-00	Switch	1
5	761127-00	Cord & Plug	1
6	761137-00	Bearing (C·E)	2
7	761144-00	Bearing (R·E)	1
8	761130-00	Field Case	1
9	761131-00	Cover	1
10	761132-00	Gear Case Cover	1
11	761133-00	Gear Case	1
12	761134-00	Slide Switch	1
13	761135-00	Spindle	1
14	761136-00	Gear	1
15	761128-00	Rubber Plug	1
16	761138-00	Washer	6
17	761139-00	Woodruff Key	1
18	760231-00	Ball Bearing	1
19	761140-00	Ret. Ring	1
20	761141-00	Flange Nut	1
21	761142-00	Inner Clamp Washer	1
22	761143-00	Outer Clamp	1
23	761129-00	Strain Relief	1
24	761145-00	Thrust Washer	1
25	761146-00	Pinion Gear	1
26	761147-00	Ring	1
27	761148-00	Fan	1
28	761149-00	Fan Baffle	1
30	761150-00	Pin	1
31	761151-00	Handle Clamp	2
32	720983-00	Screw	2
33	761152-00	Cable Clamp	1
34	720689-00	Screw	2
35	761153-00	Spring	1
36	761154-00	Adj. Nut	1
37	761155-00	Ring	1
38	761156-00	Screw	1
39	761157-00	Bushing	1
40	761158-00	Spindle	1
41	761159-00	Roll Pin	1
42	761160-00	Spring	1
43	761161-00	Thumbscrew	1
44	761162-00	Bracket	1
45	761163-00	Screw	1
46	761164-00	Spacer	1
47	761165-00	Knob	1
48	761166-00	Screw	1
49	761167-00	Marker	1
50	761168-00	Spring	1
51	761169-00	Plate	1
52	761170-00	Switch Lever	1
53	761171-00	Knob	1
54	761172-00	Spacer	1
55	761173-00	Screw	1
56	761174-00	Rubber Stop	1
57	720711-00	Thumbscrew	1
58	761175-00	Spring	2
59	761176-00	Nut	4
60	761177-00	Screw	2
61	760294-00	Screw	4
62	761178-00	Screw	2
63	761179-00	Insert	1
64	761180-00	Screw	1
65	761181-00	Screw	1
66	761182-00	Handle	1
67	761183-00	Rip Fence	1
68	761184-00	Baste Plate	1
69	761185-00	Adjusting Collar	1
70	761186-00	Screw	1
71	761187-00	Terminal	2
72	761188-00	Terminal	2
73	761189-00	Fence	1
74	761190-00	Scale	1
75	761191-00	Scale	1
76	761192-00	Screw	1
79	761193-00	Guard	1
80	761194-00	Screw	1

EXTRA EQUIPMENT:

(Not supplied with Unit)

761195-00 Connection Diagram

PARTS NOT SHOWN:

(Supplied with Unit)

761310-00	Spanner Wrench	1
761311-00	Pin Wrench	1
761312-00	Kit Box	1

IMPORTANT!—To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

When servicing Double Insulated Tools, it is extremely important that ONLY IDENTICAL REPLACEMENT PARTS BE USED and that REASSEMBLY OF TOOL IS IDENTICAL TO THE ORIGINAL ASSEMBLY.

WHEN ORDERING REPLACEMENT PARTS YOU MUST GIVE UNIT, TYPE AND CATALOG NUMBER AS SHOWN ON NAMEPLATE, PLUS PART NUMBER AND NAME OF PART NEEDED.

JOINTER GROOVER

Cat. No.	Type	Volts	Amp.	RPM
3380	1	120	6.0	7500

The Black & Decker Corporation
Hunt Valley, Maryland 21030

Printed in Switzerland | **Bulletin No. 10237**

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TOWSON, MARYLAND 21285-6896

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MISSOURI: Kansas City 64111, 4324 Main St.	816 531-0829
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St. Louis 63131, 12852 Manchester Road	314 592-5666
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NEVADA: Las Vegas 89104, 3411 East Charleston Blvd.	702 641-6555
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Little Falls 07424, RT 46 E. at Lower Notch Rd.	201 256-9373
Union 07083, 2305 U.S. Highway 22 West (1 Block West of Flagship)	201 964-7040
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Centereach L.I. 11720, 2061-63 Middle Country Rd.	516 737-4706
Latham (Albany) 12110, 836 Troy-Schenectady Rd.	518 785-1867
Manhattan (New York) 10010, 50 West 23rd St.	212 929-6450
Rochester 14623, 2969 W. Henrietta Road	716 424-1310
Syracuse 13214, 3485 Erie Blvd., East	315 446-3086
Westbury L.I. (New York) 11590, 1061 Old Country Road	516 997-6140
Woodside (New York) 11377, 56-15 Queens Blvd.	718 335-1042
Yonkers (New York) 10710, 2347 Central Park Ave.	914 779-3810
NORTH CAROLINA: Charlotte 28205, 3007 E. Independence Blvd.	704 374-1779
Greensboro 27407, 3716 High Point Road	919 852-1300
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OHIO: Cincinnati 45241, 2310 E. Sharon Road	513 772-3111
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SOUTH CAROLINA: Greenville 29607, 1557 Laurens Road,	803 232-3038
TENNESSEE: Knoxville 37917, 4118 N. Broadway	615 688-0921
Memphis 38116, 1085 East Brooks Road	901 332-3444
Nashville 37211, 4811 Nolensville Road	615 833-8277
TEXAS: Amarillo 79106, 3008 West 6th Ave.	806 373-1531
Austin 78757, 8549 Burnet Rd.	512 459-1133
Dallas 75229, 2257 Royal Lane	214 620-8655
El Paso 79925, 5822 Gateway East	915 778-9769
Fort Worth 76111, 721 North Beach St.	817 831-3828
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Richardson 75081, 310 East Main St.	214 437-9389
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